

WHAT IS CLAIMED IS

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1. A write and/or erase method adapted to
a storage apparatus having a function of changing a
write and/or erase power of a light beam with
respect to a recording medium, comprising the steps
10 of:

15 (a) setting a write and/or erase slice level
for detecting an off-track of the light beam with
respect to a track on the recording medium depending
on the write and/or erase power.

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20 2. The write and/or erase method as
claimed in claim 1, wherein said step (a) decreases
the write and/or erase slice level depending on an
increase of the write and/or erase power or,
increases the write and/or erase slice level
depending on a decrease of the write and/or erase
25 power.

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3. The write and/or erase method as
claimed in claim 1, wherein said step (a) also sets
an off-track detection time constant depending on
the write and/or erase power.

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4. The write and/or erase method as
claimed in claim 1, wherein said step (a) also sets
a shock detection time constant for detecting an
external vibration or shock depending on the write
5 and/or erase power.

10 5. A write and/or erase method adapted to
a storage apparatus having a function of changing a
write and/or erase power of a light beam with
respect to a recording medium, comprising the steps
of:

15 (a) setting a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to a track on the recording medium depending on the write and/or erase power.

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6. The write and/or erase method as
25 claimed in claim 5, wherein said step (a) decreases
the write and/or erase slice level depending on an
increase of the write and/or erase power or,
increases the write and/or erase slice level
depending on a decrease of the write and/or erase
30 power or.

35 7. The write and/or erase method as
claimed in claim 5, wherein said step (a) also sets
an off-track detection time constant depending on

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the write and/or erase power.

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8. The write and/or erase method as
claimed in claim 5, wherein said step (a) also sets
a shock detection time constant for detecting an
external vibration or shock depending on the write
and/or erase power.

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15 9. A write and/or erase method adapted to
a storage apparatus having a function of changing a
write and/or erase power of a light beam with
respect to a recording medium, comprising the steps
of:

20 (a) setting at least one parameter selected
from write and/or erase parameters depending on the
write and/or erase power, said write and/or erase
parameters including a write and/or erase slice
level for detecting an off-track of the light beam
25 with respect to a track on the recording medium, an
off-track detection time constant, a write and/or
erase slice level for detecting an external
vibration or shock applied on the storage apparatus,
and a shock detection time constant for detecting
30 the external vibration or shock.

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10. The write and/or erase method as
claimed in claim 9, wherein a dependency of the
write parameters with respect to the write power is

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different from a dependency of the erase parameters with respect to the erase power.

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11. The write and/or erase method as
claimed in claim 9, further comprising the step of:
10 (b) judging a type of the recording medium,
said step (a) being carried out when said step
(b) judges that the recording medium is a high-
density recording medium.

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12. A storage apparatus having a function
of changing a write and/or erase power of a light
beam with respect to a recording medium, comprising:
20 a setting section for setting a write and/or
erase slice level for detecting an off-track of the
light beam with respect to a track on the recording
medium depending on the write and/or erase power.

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13. The storage apparatus as claimed in
claim 12, wherein said setting section decreases the
30 write and/or erase slice level depending on an
increase of the write and/or erase power or,
increases the write and/or erase slice level
depending on a decrease of the write and/or erase
power.

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14. The storage apparatus as claimed in
claim 12, wherein said setting section also sets an
off-track detection time constant depending on the
write and/or erase power.

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10 15. The storage apparatus as claimed in
claim 12, wherein said setting section also sets a
shock detection time constant for detecting an
external vibration or shock depending on the write
and/or erase power.

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16. A storage apparatus having a function
of changing a write and/or erase power of a light
20 beam with respect to a recording medium, comprising:
a setting section for setting a write and/or
erase slice level for detecting an external
vibration or shock applied on the storage apparatus
with respect to a track on the recording medium
25 depending on the write and/or erase power.

30 17. The storage apparatus as claimed in
claim 16, wherein said setting section decreases the
write and/or erase slice level depending on an
increase of the write and/or erase power or,
increases the write and/or erase slice level
35 depending on a decrease of the write and/or erase
power.

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18. The storage apparatus as claimed in
claim 16, wherein said setting section also sets an
off-track detection time constant depending on the
write and/or erase power.

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19. The storage apparatus as claimed in
10 claim 16, wherein said setting section also sets a
shock detection time constant for detecting an
external vibration or shock depending on the write
and/or erase power.

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20. A storage apparatus having a function
of changing a write and/or erase power of a light
20 beam with respect to a recording medium, comprising:
a setting section for setting at least one
parameter selected from write and/or erase
parameters depending on the write and/or erase power,
said write and/or erase parameters including a write
25 and/or erase slice level for detecting an off-track
of the light beam with respect to a track on the
recording medium, an off-track detection time
constant, a write and/or erase slice level for
detecting an external vibration or shock applied on
30 the storage apparatus, and a shock detection time
constant for detecting the external vibration or
shock.

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21. The storage apparatus as claimed in

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claim 20, wherein a dependency of the write parameters with respect to the write power is different from a dependency of the erase parameters with respect to the erase power.

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22. The storage apparatus as claimed in
10 claim 20, further comprising:

a judging section for judging a type of the recording medium,

15 said setting section setting said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.

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